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H401 H402 H441 H442 H498 H598 JO J013 J014 J1 J171 J172 J3 J311 J371
J372 M210 M211 M271 M280 M281 M311 M312 M313 M315 M321 M322 M331 M332
M333 M340 M342 M343 M349 M371 M381 M391 M392 M412 M413 M414 M510 M511
M512 M520 M521 M530 M531 M532 M540 M781 M903 M904 P526 P616 V0 V814
V911; 9408-17001-U; 1278-P 1544-S 1732-U 1532-P 1779-P 0517-U 0843-U
1926-S 1966-S 1036-U 0758-U 1784-U 1674-U 1503-U 1767-U 1694-S 1753-U
1905-U 0989-U 0453-U

PA - (CHIB-N) CHIBA SEIHUN KK

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PR - JP19910262537 19910917

XA - C1994-027735

XIC - A23L-001/305 ; A61K-037/18 ; A61K-037/64 ; C07K-005/08 ; C12N-009/99 ;
C12P-021/06

AB - J06016568 The inhibitor consists of a tripeptide in which the
C-terminal aminoacid is aromatic, pref. Trp.

- USE/ADVANTAGE - The inhibitor is useful as a drug or a specific health
food for the prevention and inhibition of hypertension.

- In an example, 6.7g of wheat gluten contg. 70% moisture were dissolved
in 200ml of 2N acetic acid and the soln. was adjusted to a pH of 3.5
with HCl. Pepsin of protein wt. ratio 1.250 was added to hydrolyse it
at 37 deg.C for 24 hrs. The hydrolysate was then heated at 100 deg.C
for 10 mins. to inactivate pepsin and freeze dried to give 2.0g of
pepsin decomposed powder. It was again dissolved in 20ml of 0.02N
acetic acid and gel filtered by a Sephadex G-25 column. The peak
eluted last was collected and freeze dried. 250mg of the resultant
powder was gel filtered by a Sephadex G-10 column. The peak eluted
last was collected and conc. in vacuo. The concentrate was subjected
to a reversed phase HPLC (Cosmosil 5D18AR) and eluted by acetonitrile
concn. gradient in 0.05% trifluoroacetic acid. The active fraction
was again subjected to a reversed phase HPLC of acetonitrile concn.
gradient elution twice to give 0.2mg tripeptide, Ile-Ile-Tyr. The ACE
inhibiting activity, IC50, of the peptide was 3.7 microns.

- (Dwg.0/0)

CN - 9408-17001-U

DRL - 1278-P 1544-S 1732-U 1532-P 1779-P 0517-U 0843-U 1926-S 1966-S 1036-U
0758-U 1784-U 1674-U 1503-U 1767-U 1694-S 1753-U 1905-U 0989-U 0453-U

IW - ANGIOTENSIN CONVERT ENZYME INHIBIT COMPOSE TERMINAL AROMATIC AMINOACID
PREVENT TREAT HYPERTENSIVE

IKW - ANGIOTENSIN CONVERT ENZYME INHIBIT COMPOSE TERMINAL AROMATIC AMINOACID
PREVENT TREAT HYPERTENSIVE

NC - 001

OPD - 1991-09-17

ORD - 1994-01-25